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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	Ī
10/603,249	06/25/2003	Leonardus H.T. Van der Ploeg	20561YDA	3677	_
210 7	590 07/05/2006		EXAM	INER	-
MERCK AND CO., INC			FALK, ANNE MARIE		
P O BOX 2000)				_
RAHWAY, N	J 07065-0907	ART UNIT	PAPER NUMBER		
			1632		

DATE MAILED: 07/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/603,249	VAN DER PLOEG ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Anne-Marie Falk, Ph.D.	1632			
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a) <u></u>	Responsive to communication(s) filed on <u>03 Ap</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims						
5)□ 6)⊠ 7)□ 8)□	Claim(s) 30-32 and 36-57 is/are pending in the 4a) Of the above claim(s) 30-32,36-46,49 and 5 Claim(s) is/are allowed. Claim(s) 47,48 and 50-53 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	54-57 is/are withdrawn from cons	ideration.			
9)[The specification is objected to by the Examine	r.	•			
10)🖾	The drawing(s) filed on <u>25 June 2003</u> is/are: a)	⊠ accepted or b) objected to	by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 1/30/06	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

The response filed April 3, 2006 has been entered.

Applicants' election, with traverse, of Group IV, Claims 47, 48, and 50-53 in the response filed April 3, 2006 is acknowledged. The elected invention is drawn to a method for determining whether a substance is capable of binding to the melanocortin-3 receptor (MC-3R), a method for determining whether a substance is capable of activating MC-3R and regulating body weight, a method for determining whether a substance is a potential agonist or antagonist of MC-3R and regulates body weight, and a method for determining whether a substance is capable of binding to MC-3R and regulating body weight. The traversal is on the grounds that Groups IV and V should be examined together. Applicants state that there is no undue burden to search for a method of identifying a substance which modulates the human MC-3R (SEQ ID NO: 4, as recited in Claim 49, when a method of identifying a substance which modulates MC-3R (not specific to a particular species) must be searched and considered at the same time. The issue is not that Claim 49 recites a particular species and that the claims of Group IV are broadly drawn to any MC-3R of the genus, but rather relates to the type of assay being performed, which are distinct. The methods of the the invention of Group IV are patentably distinct from the method of the invention of Group V because the inventions are drawn to distinct methods that require different starting materials, different modes of operation, and produce different effects. The method of the invention of Group V requires the use of purified protein, whereas the method of the invention of Group IV requires the use of test cells. Thus, the starting materials differ substantially. Furthermore, such assays differ substantially in their mode of operation and effect produced. A purified protein cannot be assayed in the same manner as test cells. The searches required for the inventions are not coextensive. A search for an assay method that uses test cells to look at receptor activity would not likely identify art relating to binding assays that use purified protein. Thus, additional searching would be required to cover the invention of Group V. Likewise, a search for binding assays that use purified protein would not likely

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identify art relating to assay methods that use test cells to look at receptor activity. Therefore, a search and examination of both inventions in a single patent application does impose a serious burden on the Office.

The requirement is still deemed proper and is therefore made FINAL.

Claims 30-32 and 36-57 remain pending in the instant application.

Claims 30-32, 36-46, 49, and 54-57 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention. Applicant timely traversed the restriction requirement in the reply filed on April 3, 2006.

Accordingly, Claims 47, 48, and 50-53 are examined herein.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 47, 48, and 50-53 are rejected under 35 U.S.C. 102(b) as being anticipated by Fong et al. (1997, Biochemical and Biophysical Research Communications 237: 629-631; cited on the IDS filed 1/30/06, citation no. U).

Fong et al. (1997) disclose that agouti related protein (ART) is an antagonist of the human MC-3 and MC-4 receptors. ART was expressed as a secreted protein in COS-7 cells and was shown to be functionally active in inhibiting the binding of a radiolabeled α-melanocyte stimulating hormone (α-MSH) analog to the human melanocortin-3 (MC-3) and melanocortin-4 receptors. Binding assays were carried out using membranes prepared from L cells stably expressing human MC-3R (page 630, column 1, paragraph 1). Since L cells are a mouse cell line, it is clear that the cells were transfected to express the

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human MC-3R, and therefore this teaching is inherent in the reference. Intracellular cAMP levels were measured by radioimmunoassay (page 630, column 1, paragraph 2). The α-MSH analog acts as a ligand for the MC-3 and MC-4 receptors. Thus, ART corresponds to the test substance as recited in the instant claims. The reference further discloses that the data suggest that ART may be a physiological regulator of feeding behavior. Thus, Fong et al. carried out the assays as instantly claimed.

Thus, the claimed invention is disclosed in the prior art.

Conclusion

No claims are allowed.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne-Marie Falk whose telephone number is (571) 272-0728. The examiner can normally be reached Monday through Friday from 10:30 AM to 7:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, can be reached on (571) 272-0735. The central official fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Anne-Marie Falk, Ph.D.

ANNE-MARIE FALK, PH.D PRIMARY EXAMINER